

REMARKS / ARGUMENTS

Claims 1-9 and 14-19 remain pending in this application. Claims 10-13 have been canceled without prejudice or disclaimer. New claims 16-19 have been added.

35 U.S.C. §112 and Claim Objections

The rejection and objections to claim 10 have been rendered moot by the cancellation of claims 10-13 without prejudice or disclaimer.

35 U.S.C. §103

Claims 1-2, 4-9 and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Davis (U.S. Patent No. 5,805,712) in view of Stokes (U.S. Patent No. 6,473,861) and further in view of Imai (U.S. Patent No. 5,512,977). Claim 3 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Davis in view of Stokes and further in view of Imai and further in view of Hartman (U.S. Patent No. 5,224,166). Claims 10-12 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Ote (U.S. Patent No. 6,023,506) in view of Imai in view of Stokes and further in view of Davis. Claim 15 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Davis in view of Stokes in view of Imai and further in view of Nagai (U.S. Patent No. 6,571,263). These rejections are traversed as follows.

Claim 1, as amended, is directed to an information processing apparatus having a processing device which is integrated on a single semiconductor chip. The

processing device internally generates first key information and second key information, internally encrypts sensitive information inputted from a bus with the generated second key information, internally encrypts the generated second key information with the generated first key information, and outputs the encrypted sensitive information and the encrypted second key information without outputting the first key information for encrypting the second key information to the bus. Thus, according to the present invention, the processing device internally encrypts the generated second key information with the generated first key information and newly generates a different second key information inputted from the bus is encrypted. The first key information is common to a plurality of the second key information.

The Examiner states that Imai discloses encryption key generating means capable of generating an encryption key for enciphering information every time encryption processing is performed (citing column 2, lines 15-18). Therefore, Imai discloses a device that newly generates key information each time sensitive information inputted from the bus is encrypted. However, Imai does not disclose that the encryption key is enciphered with another encryption key that is not outputted outside the information processing apparatus. As such, Imai clearly fails to disclose the recited features in the pending claims.

The deficiencies in Imai are not overcome by resort to the remaining references. As stated on page 4 of the Office Action, the Examiner relies upon Imai for the disclosure of newly generated key information each time sensitive information is input for encryption and storing. The Examiner relies upon Stokes for disclosing

that key information is erased upon the occurrence of an abnormality. The Examiner relies upon Hartman for disclosing that information not requiring encryption is output onto a bus through an external bus controller. The Examiner relies upon Ote for disclosing a system in which an unencrypted file is selected by a user to be encrypted by an encryption control unit. Finally, the Examiner relies upon Nagai for disclosing a random number generator apparatus which includes a use of a zener diode. These secondary references are used in addition to the primary reference to Davis which is generally directed to an apparatus for providing secured communications.

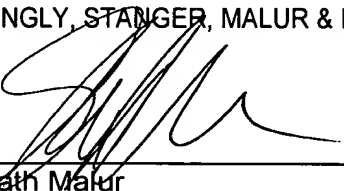
None of the cited references disclose the above-mentioned features of the presently claimed invention. As such, it is submitted that all the pending claims patentably define the present invention over the cited art.

Conclusion

In view of the foregoing, Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

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